

FLINTKOTE



**ASPHALT *and* ASBESTOS SHINGLES *and*
SIDINGS • BUILT-UP ROOFING • ROLL ROOFING
ROCK WOOL *and* BOARD INSULATION**



FLINTKOTE ASPHALT • •

Flintkote Asphalt Shingles

The chart on this page describes the four major types of Asphalt Shingles that are available and gives comparative information concerning them.

Asphalt Shingles are made of:

(1) FELT, a durable fabric that forms their foundation.

(2) A SATURANT of asphalt, the water-proofing agent which penetrates the felt and forms a protective coating around the fibres.

(3) A COATING of specially prepared asphalt on top and back that seals in the saturant and makes the Shingle weather-proof.

(4) A SHIELD of weather and fire resistant colored minerals firmly imbedded in the outer coating, which combines beauty with safety and forms the final protection against the weather.

Flintkote Products

Asphalt Shingles and Siding
Asbestos Shingles and Siding
Built-up Roofing
Roll Roofing
Asphalt Emulsions
Protective Coatings

For:

Rock Wool Insulation
Insulation Board
Hard Board

See File Index

Sales Offices

NEW YORK, N. Y. 50 W. 50th St.
ATLANTA, GA. 1215 Sylvan Rd., S.W.
BOSTON, MASS. 826 Park Square Bldg.
CHICAGO, ILL. 624 So. Michigan Ave.
DETROIT, MICH. 14201 Schaefer Hwy.
NEW ORLEANS, LA.
..... Poland and Galvez St.
WACO, TEX. Superior Life Bldg.



Products of the same high quality are sold by the Beckman-Dawson Roofing Company and Richardson Roofing, affiliates of The Flintkote Company.

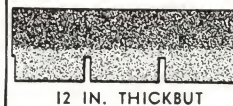
Types and Descriptive Data

Product



THIKBUT SHINGLES

The drawing at the left is a cross section of the butt of a *Thikbut* Shingle. Thikbut Shingles are standard shingles that have an extra protective coating of asphalt and an additional surfacing of mineral thus providing twice as much material on the exposed portion of the shingle. This is the most satisfactory and economical type of Asphalt Shingle.



12 IN. THIKBUT

Strips

12 in. Thikbut



15 IN. THIKBUT

15 in. Thikbut ▲



SETAB SHINGLES

The drawing at the left is a cross section of the butt of a *Setab* Shingle. Setab Shingles are standard shingles that have been hand dipped in asphalt and minerals thus completely sealing the felt at the exposed edge.



STANDARD SETAB

Strips

Standard



TAPERED SETAB

Tapered Setab †



TAPERED SHINGLES

The drawing at the left is a cross section through the butt of a *Tapered* Shingle. Tapered Shingles are standard shingles with a tapered coating of asphalt on the exposed side of the shingle thus providing extra thickness at the butt.



TAPERED

Individuals

Tapered ★ † ▲



TAPERED STRIP

Strips

Tapered †



STANDARD SHINGLES

The drawing at the left is a cross section through the butt of a *Standard* type of shingle. Standard Shingles are composed of one layer of felt saturated with asphalt and surfaced on the top surface with fire resisting materials.

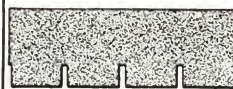


SUPER GIANT

Individuals

Dutch Lap

Super Giant



SQUARE BUTT

Strips

10 in. Square Butt

12½ in. Square Butt ▲

12 in. Giant Square Butt † ▲



SPECIAL HEXAGON

11½ in. Spec. Hexagons

12¼ in. Spec. Hexagons ○ ▲

★ Not available in East.

† Not available in South.

○ Not available in Middlewest.

▲ Not available in Pacific Coast Zone.

*Subject to change without notice.

• • SHINGLE PRODUCT DATA*

Dimensions Inches	Shingles Per Sq.	Bundles Per Sq.	Aver. Approx. Wt.	Under- writers' Label**	Headlap Inches	Exposure Inches	Relative Cost Material Only (See Footnote)	Colors (Note: Numerals refer to color reproduc- tions on rear cover)
12 x 36	80	3	210#	"C"	2	5		Blue Black (2), Tile Red (3), Clover Green (7), Mottled Red (1), Mottled Green (8), Mottled Gray (4), Mottled Brown (5) ★ ▲, Dusk Blue ★ ▲.
15 x 36	80	3	250#	"C"	5	5		Blue Black (2), Tile Red (3), Clover Green (7), Mottled Red (1), Mottled Green (8), Mottled Gray (4) ★.
12 x 36	80	3	230#	"C"	2	5		Blue Black (2), Tile Red (3), Clover Green (7), Canyon Red (1), Canyon Green (8), Canyon Brown (5), Canyon Gray (4), Georgian Green (8), Green (6), Dusk Blue.
12 x 36	80	4	355#	"C"	2	5		
10 x 13½	300	4	360#	"C"	4½	4½		Blue Black (2), Tile Red (3), Clover Green (7), Green (6), Antique Brown, Slate Blend (4), Red Blend (1), Green Blend (8).
12 x 36	80	3	275#	"C"	2	5		Blue Black (2), Tile Red (3), Clover Green (7), Green (6), Warm Blend (1), Kool Blend (8).
12 x 16	113	2	162#	"C"	2	10 x 13		Blue Black (2), Tile Red (3), Clover Green (7), Green (6) ○, Red Blend (1) †, Green Blend (8) †, Weathered Brown (5) ○.
12 x 16	226	4	325#	"C"	6	5		
10 x 36	100	2	210#	"C"	2	4		Blue Black (2), Tile Red (3) †, Clover Green (7), Green (6), Warm Blend (1) †, Kool Blend (8).
12½ x 36	100	3	266#	"C"	4½	4		
12 x 36	80	3	257#	"C"	2	5		Blue Black (2), Tile Red (3), Clover Green (7), Green (6), Spring Blend (8), Autumn Blend (1).
11⅓ x 36	86	2	167#	"C"	2	4⅔		
12⅓ x 36	86	2	186#	"C"	3	4⅔		Blue Black (2), Tile Red (3), Clover Green (7).

**All products listed above carry the approved Class "C" Label of the National Board of Fire Underwriters.

NOTE—The graphs in the "Relative Cost" column above represent the relative sales prices of material only. Labor costs are not included. The longer the line, the more expensive the product.

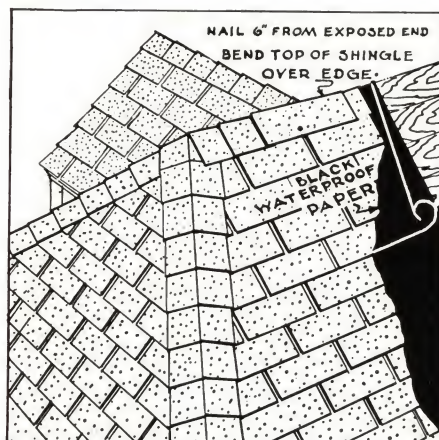


ASPHALT SHINGLES . . .

General Information

Asphalt shingles must be applied on slopes having an incline of 4 in. or more to the foot. Asphalt Saturated Felt or Black Waterproof Paper should be applied over the deck before applying shingles. Only well seasoned boards of narrow width and uniform thickness should be used. While plaster is drying, adequate ventilation in the building should be provided to prevent warpage or swelling of roof sheathing.

Chalk lines should be established from ridge to eaves and across roof to assure proper exposure and alignment of shingles. Shingle cutouts may be broken in thirds or halves. As with all quality materials good performance depends upon proper application, therefore, the detailed application Directions included in each square of shingles should be followed.



HIPS AND RIDGES

Individual shingles of the same color should be used to cover all hips and ridges, applied in overlapping manner (Boston style) with not more than 5 in. exposed, and nailed 6 in. from the exposed edges on each side of hip or ridge. No nails should be exposed. Shingles should be warmed in the sun before bending over ridges. If individual shingles of the same color are not available, strip shingles may be cut into individuals and used. The exposed portion of the shingles should be applied away from prevailing winds.



VALLEYS

Valleys should be laid with two thicknesses of mineral surfaced roofing, one 9 in. wide with another 18 in. wide on top, applied before shingles are laid so that shingles will overlap valleys. Shingles should be trimmed to leave a trough 6 in. wide at the ridge and 8 in. wide at the eaves, and nailed 2 in. apart and 1 in. from the valley with all nail heads covered with Flintkote Plastic Fibrated Cement. Shingles should be sealed to valleys with Flintkote Plastic Cement applied in ribbons 2 in. wide. Chimneys, dormers, skylights, etc., should be flashed with prepared roofing and Flintkote Plastic Fibrated Cement. Flashings should extend well under shingles. All counter flashings should be of metal.



EAVES AND STARTERS

On all eaves a galvanized iron drip edge 12 in. wide, painted on both sides should be applied. Over this, 18 in. mineral surface Roll Roofing should be applied as a starter course, flush with eave. It should be nailed at 24 in. intervals along eave about 3 in. from edge. Shingles may then be applied as specified in the direction sheets.

• • • APPLICATION AND DETAILS



Individuals

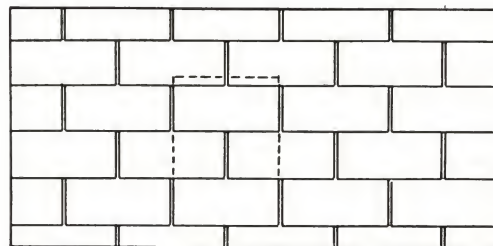


There are three common methods employed in applying individual shingles—the American Method, the Wide Space Method, and the Dutch Lap Method. All methods make a good

roof, but differ in appearance and life. (The drawings explain the appearance and method of application.) $1\frac{1}{2}$ in. x 12 gauge galvanized iron nails with $\frac{7}{16}$ in. heads should be used.

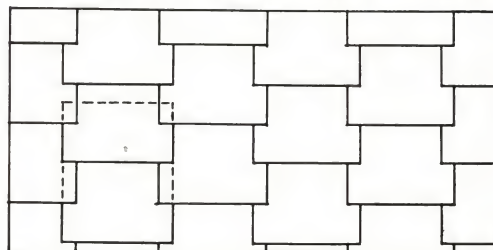
AMERICAN METHOD

The American Method illustrated at the right is the most commonly used. While the American Method is the most pleasing in appearance, it required the maximum amount of material. Requires 3 lbs. of nails per square.



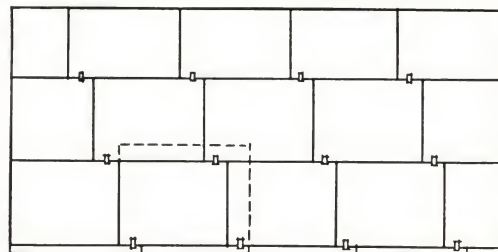
WIDE SPACE METHOD

The Wide Space Method shown at the right, while less pleasing in appearance, assures a safe roof and uses only two-thirds as much material. Requires $2\frac{1}{4}$ lbs. of nails per square.



DUTCH LAP METHOD

The Dutch Lap Method is the most economical since it requires only one-half as much material as the American Method. This method requires the use of copper clips under one corner and has a head lap of 2 in. and a side lap of 3 in. Requires $1\frac{1}{2}$ lbs. of nails per square.



Strip Shingles

Strip Shingles are 36 in. long and vary in width from 10 to 15 in. and comprise three (and sometimes four) shingles in one piece of material. These naturally are more economical to apply than Individual Shingles since three (or four)

shingles may be laid in about the same time as one Individual. There are two general classes of Strip Shingles—Square Butt Shingles and Hexagonal.

SQUARE BUTT STRIP SHINGLES

The cut at the right shows a Square Butt Strip Shingle. When these are applied on the roof they have the appearance of American Method Shingles and give the same coverage. Four 1 in. x 11 gauge with $\frac{7}{16}$ in. head galvanized iron nails should be used with each shingle nailed through the shingle $\frac{1}{2}$ in. directly above the cutout.



HEXAGON STRIP SHINGLES

The cut at the right shows a Hexagon Strip Shingle. This is a very economical product providing good protection. Hexagon Strip Shingles are best suited where low cost is of great importance. Four 1 in. x 11 gauge $\frac{7}{16}$ in. head galvanized iron nails are required for each shingle. Nails should be located $\frac{1}{2}$ in. above cutout and end nails $\frac{3}{4}$ in. from edge of shingle.





ASBESTOS CEMENT . . .

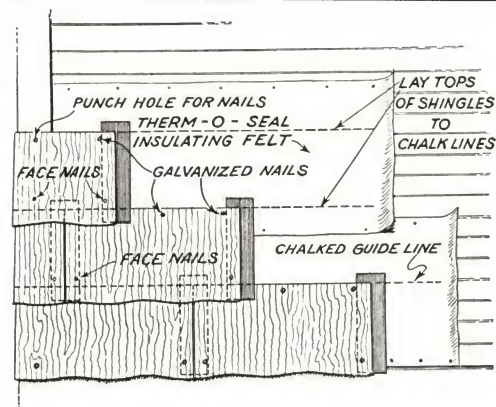
Characteristics

Flintkote Asbestos roofing and siding materials are manufactured from Pure Asbestos fibres and Portland Cement which are formed into the various shingle shapes under hydraulic pressure. Both of these materials are non-combustible, thus resulting in fireproof products. These permanent materials will last almost indefinitely and do not require painting or staining to preserve their life. Asbestos Roofing, Shingles are available in natural gray, green, red and blue-black; Asbestos Sidings in silver gray, white and in the several different styles shown in the table below.

GENERAL APPLICATION INFORMATION

All surfaces over which Asbestos Shingles are to be applied should be smooth and true. Asbestos Shingles should always be kept in a dry place until applied. All cutting or punching of Asbestos Shingles should be done with an Asbestos Shingle Cutter, which is especially

designed for this purpose. The use of a waterproof felt under shingles is necessary. Detailed application directions are included in each square of the shingles and should be followed for satisfactory results.



All valleys and flashings should be of the metal most durable for the locality. Special starting shingles are available where required. The drawing above illustrates the method of applying Asbestos Siding.

PRODUCT DATA — FLINTKOTE ASBESTOS CEMENT ROOFING AND SIDING*

ROOFING SHINGLES							
Product		Dimensions Inches	Approx. Weight per sq.	Shingles per sq.	Head Lap Inches	Side Lap Inches	Exposure Inches
Hexagonal French Method No. 10		16 x 16 x 5/32	265#	86	.....	3	13 x 13
Dutch Lap Method No. 20		16 x 16 x 5/32	280#	92	3	4	12 x 13
SIDING SHINGLES							
Waveline** No. 60		12 x 24 x 5/32	185#	57	1 1/2	.....	10 1/2 x 24
Waveline** No. 70		7 3/4 x 24 x 5/32	210#	96	1 1/2	.....	6 1/4 x 24
Shake** No. 80		12 x 24 x 5/32	195#	60	1 1/4-2	.....	10 x 24
Wide Space No. 100		8 x 16 x 5/32	245#	160	2	1 1/2	Top 7 x 5 Butt 7 x 8
Top Lap No. 150		8 x 16 x 5/32	245#	165	2 1/2	.....	5 1/2 x 16

*Subject to change without notice.

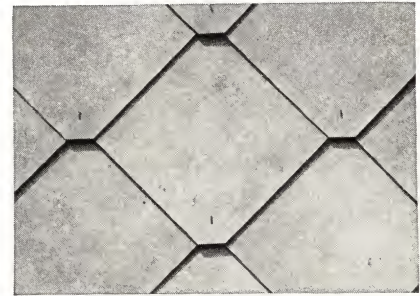
**Vertical Joint Strips and face nails are supplied in package.

• • ROOFING AND SIDING PRODUCTS



HEXAGONAL METHOD ROOFING SHINGLES

Hexagonal Roofing Shingles are smooth surfaced shingles sixteen inches square, laid as shown in the illustration at the right. A small copper storm anchor is used at the lower end of the shingle holding it securely in place. Special starting course shingles are available and should be used.



HEXAGONAL METHOD

DUTCH LAP METHOD ROOFING SHINGLES

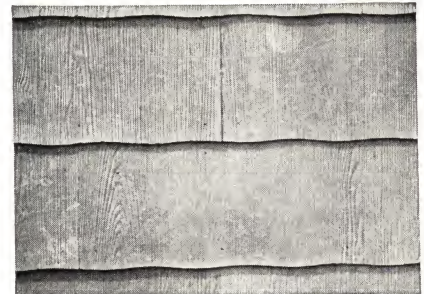
Dutch Lap Method Roofing Shingles are sixteen inches square with the grain of cypress reproduced as a surface pattern and are laid as shown in the illustration at the right. A small copper clip is used at the lower corner. Dutch Lap Method Roofing Shingles may be laid with $\frac{1}{4}$ or $\frac{1}{3}$ side lap. With the $\frac{1}{3}$ side lap vertical joints break directly above each other in every other course similar to the American Method of application.



DUTCH LAP METHOD

WOODGRAIN SIDING SHINGLES

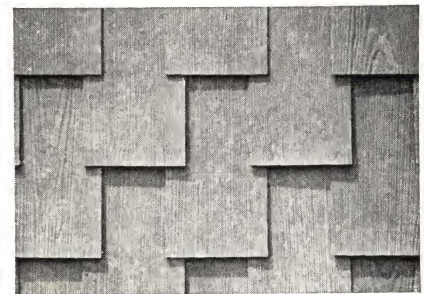
The illustration at the right shows the appearance of woodgrain Asbestos Siding Shingles. The product shown is our 12 x 24 in. Waveline material. This same type siding material is also available with a Shake design on the butt, and the Waveline is furnished in narrower widths (see table). Asphalt coated felt strips 3 in. wide are supplied for use under joints. Special cadmium plated face nails are supplied with each square of shingles.



WAVELINE SIDING

WIDE SPACE SIDING SHINGLES

The Wide Space Siding Shingles shown at the right provide an interesting and different pattern. They may be applied with space fillers between shingles which may be flush with exposed butt or dropped one inch to make more interesting effects. These shingles are applied without felt strips or face nails.



WIDE SPACE SIDING

TOP LAP SIDING SHINGLES

Top Lap Siding Shingles are smaller units being only 8 x 16 in. and are laid with a narrow exposure. They have a straight edge in contrast to the Waveline and Shake Designs. No face nails are required with this product. All 24 in. long Asbestos Siding Shingles are packaged in cardboard containers with steel straps to protect them.



TOP LAP SIDING



FLINTKOTE BUILT-UP ROOFING

ENGINEERING SERVICES BY ROOFING ENGINEERS

Flintkote Sales Engineers are prepared to furnish definite recommendations as to the correct type of roof to be used with any type of construction. Any special problem may be referred to them with assurance of cooperation.

BUILT-UP ROOFING MATERIALS AND APPLICATION

Flintkote Built-up Roofing Materials are manufactured in our own plants according to our strict specifications. With this control of manufacture quality of product is certain and identical in all respects from all of our factories.

Flintkote Bonded Built-up Roofs are applied only by Flintkote approved roofers insuring a roof built to exact specifications as required by THE FLINTKOTE COMPANY.

TYPES AND FINISHES OF BUILT-UP ROOFS

Flintkote specifications have been made complete by incorporating the following types of built-up roofing construction, each for a specified term of years:

(1) Smooth Surfaced Asphalt Roofs; (2) Gravel or Slag Surfaced Asphalt Roofs; (3) Crushed Slate Surfaced Asphalt Roofs; (4) Coal Tar Felt and Pitch Roofs.

All of the above roofs will be bonded if desired.

BOND FOR BUILT-UP ROOF AND FLASHINGS

If a Flintkote Bond is required, the roof shall be inspected by an authorized Flintkote Inspector. Such bonds will be given only when the roof is laid by an approved Flintkote Franchise Roofer in strict accordance with specifications.

Flintkote Standard Flashing Specifications used in conjunction with a bonded roof specification, will carry a flashing endorsement for a period of years corresponding to the type of flashing used.

VISKALT COMPOUND

Viskalt Compound is an especially refined asphalt used where a superior product is desired and is particularly required for smooth surface roofs.

FLINTKOTE VISKALT SATURATED FELT

Viskalt Saturated Felt is the highest quality type of felt in both material and manufacture for use in built-up roofing. The high quality of this felt is maintained because of the fact that it is super-saturated with the same type of bitumen used in the production of Viskalt. This felt carries the Underwriters' Label as provided for built-up roofing purposes.

Made in weights of 14 lbs., 15 lbs. and 30 lbs. per 100 sq. ft.

TABULATED SPECIFICATIONS FOR VARIOUS TYPES OF FLINTKOTE BUILT-UP ROOFING †

Period of bond years	Specification Designation	Page No.	Limitations of roof incline in inches per foot	Surface finish	Construction		Material weights													Weight per square				
					Number of plies of felt	Layers of bitumen	Primer	Sheathing paper	Base sheet	Asphalt felt	Tarred felt	Rex construction	Cap sheet	Asphalt	Pitch	Viskalt	Static roof coating	Gravel	Slag	Smooth	Mineral surfaced	Gravel surfaced	Slag surfaced	Underwriters classification
Standard Specifications for Wood or Precast Gypsum Decks																								
20	A-3-W	9	¼ up to 3	Gravel or slag	One 30-lb. felt (asphalt) Three 15-lb. felts (asphalt)	4	.....	.....	32	49	.....	.....	.....	140	.....	.....	.....	400	300	.....	.....	621	521	A
20	A-4-W	9	¼ up to 2	Gravel or slag	Five 15-lb. felts (tar) One sheathing paper	4	.....	5	.....	.....	81	.....	.....	150	.....	.....	.....	400	300	.....	.....	636	536	A
15	B-3-W	9	¼ up to 3	Gravel or slag	One 30-lb. felt (asphalt) Two 15-lb. felts (asphalt)	3	.....	.....	32	32	.....	.....	.....	110	.....	.....	.....	400	300	.....	.....	574	474	A
15	B-4-W	9	¼ up to 2	Gravel or slag	Four 15-lb. felts (tar) One sheathing paper	3	.....	5	.....	.....	65	.....	.....	125	.....	.....	.....	400	300	.....	.....	595	495	A
15	B-2-W	9	3 up to 9	Mineral	Three 15-lb. felts (asphalt) Rex Construction	4	.....	.....	.....	49	.....	110	.....	120	.....	.....	.....	.....	.....	.....	279	.....	.....	C
10	C-3-W-S**	9	3 up to 6	Gravel or slag	Five 15-lb. felts (asphalt) One 34-lb. base sheet	5	.....	.....	.....	81	.....	.....	.....	125	.....	.....	.....	325	250	.....	.....	531	456	C
10	C-1-W-C	9	¾ up to 3	Cap sheet	Two 15-lb. felts One 34-lb. cap sheet	3	.....	.....	35	32	.....	.....	34	90	.....	.....	.....	.....	.....	.....	191	.....	.....	C
10	C-2-W	9	3 up to 9	Mineral	Two 15-lb. felts (asphalt) Rex Construction	2	.....	.....	.....	32	.....	110	.....	60	.....	.....	.....	.....	.....	.....	202	.....	.....	C
10	C-1-W	9	¾ up to 3	Viskalt	One 30-lb. felt (asphalt) Two 15-lb. felts (asphalt)	3	.....	.....	32	32	.....	.....	.....	90	.....	.....	.....	.....	.....	.....	154	.....	.....	C
10	C-1-W-E	9	¾ up to 3	Static roof coating	One 30-lb. felt (asphalt) Two 15-lb. felts (asphalt)	3	.....	.....	32	32	.....	.....	.....	60	.....	.....	30	.....	.....	.....	154	.....	.....	C

**A similar type of specification for steep inclines is available for 20-yr. bond period.

Standard Specifications for Non-combustible Decks

20	A-3-C	10	¼ up to 3	Gravel or slag	Four 15-lb. felts (asphalt)	5	9*	.....	65	.....	180	.....	.....	400	300	.....	.....	654	554	.....	.....	.....	.....	A
20	A-4-C	10	¼ up to 2	Gravel or slag	Four 15-lb. felts (tar)	5	.....	.....	65	.....	200	.....	.....	400	300	.....	.....	665	565	.....	.....	.....	.....	A
15	B-3-C	10	¼ up to 3	Gravel or slag	Three 15-lb. felts (asphalt)	4	9*	.....	49	.....	150	.....	.....	400	300	.....	.....	608	508	.....	.....	.....	.....	A
15	B-4-C	10	¼ up to 2	Gravel or slag	Three 15-lb. felts (tar)	4	.....	.....	49	.....	175	.....	.....	400	300	.....	.....	624	524	.....	.....	.....	.....	A
15	B-2-C	10	3 up to 9	Mineral	Two 15-lb. felts (asphalt) Rex Construction	4	9	.....	32	110	120	.....	.....	.....	.....	.....	.....	.....	.....	271	.....	.....	.....	C
10	C-3-C-S**	10	3 up to 6	Slag or gravel	Four 15-lb. felts (asphalt)	5	9*	.....	65	.....	125	.....	.....	325	250	.....	.....	624	449	.....	.....	.....	.....	C
10	C-1-C-C	10	¾ up to 3	Cap sheet	Three 15-lb. felts (asphalt) One 34-lb. cap sheet	4	9	.....	49	.....	34	120	.....	.....	.....	.....	.....	.....	.....	212	.....	.....	.....	C
10	C-2-C	10	3 up to 9	Mineral	One 15-lb. felt (asphalt) Rex Construction	3	9	.....	15	110	90	.....	.....	.....	.....	.....	.....	.....	.....	224	.....	.....	.....	C
10	C-1-C	10	¾ up to 3	Viskalt	Three 15-lb. felts (asphalt)	4	9	.....	49	.....	.....	120	.....	.....	.....	.....	.....	.....	.....	178	.....	.....	.....	C
10	C-1-C-E	10	¾ up to 3	Static roof coating	One 30-lb. felt (asphalt) Two 15-lb. felts	4	9	.....	32	.....	90	.....	.....	30	.....	.....	.....	.....	.....	193	.....	.....	.....	C

*Primer required only on gypsum decks.

**A similar type of specification for steep inclines is available for 20-yr. bond period.

Over steel decks with at least ½-in. layer of insulation any specification for non-combustible decks may be used, provided that on all decks having inclines of over 3 in. per foot provision for nailing is made.

Standard Specifications for Under Promenade Tile

10	C-1-P	11	Up to 1	Tile	Five 15-lb. felts (asphalt)	6	9	.....	81	.....	180	.....	.....	.....	.....	.....	.....	.....	.....	270	.....	.....	.....	.....
10	C-4-P	11	Up to 1	Tile	Five 15-lb. felts (tar)	6	.....	.....	81	81	.....	.....	.....	200	.....	.....	.....	.....	.....	281	.....	.....	.....	.....

Note: Specifications for use in the eleven western states are different from above, and can be obtained from offices of PIONEER-FLINTKOTE COMPANY (see page 2 for addresses, etc.). No bonds are issued in Pacific Coast area. Slag or gravel surfaced roofs are recommended for use in or south of the states of South Carolina, Georgia, Tennessee, Arkansas and Oklahoma as we will not bond smooth surfaced asphalt roofs in that area.

†Subject to change without notice.

Architects' Condensed Specifications**BUILT-UP ROOFING OVER WOOD OR PRECAST GYPSUM DECKS****SPECIFICATION A-3-W (BOND: 20 YEARS)**

Type—Slag or Gravel Surface Viskalt Saturated Felts, Asphalt.

Deck—Wood (or precast gypsum).

Incline— $\frac{1}{4}$ -in. up to 3-in. per foot.

Classification—Underwriters' "A."

Insert Under "Roofing"—Built-up Roofing shall be a Flintkote Specification A-3-W applied as follows subject to the Flintkote detailed specification. Apply a Flintkote 30-lb. Viskalt Saturated Felt (or two layers of 15-lb. Viskalt Saturated Felt lapped 19 in.) laid dry and nailed. Over this base apply three layers of 15-lb. Viskalt Saturated Felt in shingle construction lapped 24 $\frac{3}{4}$ in. and solidly cemented with Flintkote Roofing Asphalt. Coat surface with a heavy pouring of Flintkote Roofing Asphalt and embed 400 lbs. of gravel or 300 lbs. of slag.

Flashing—A Flintkote standard flashing shall be used.

Bond—Manufacturers' bond on roofing shall be furnished for a period of 20 years.

SPECIFICATION A-4-W (BOND: 20 YEARS)

Type—Slag or Gravel Surface Tarred Felts, Rex Blended Pitch.

Deck—Wood (or precast gypsum).

Incline— $\frac{1}{4}$ -in. up to 2-in. per foot.

Classification—Underwriters' "A."

Insert Under "Roofing"—Built-up Roofing shall be a Flintkote Specification A-4-W applied as follows subject to the Flintkote detailed specification. Apply one layer of sheathing paper and over this apply two layers of Flintkote 15-lb. Tarred Felt laid dry in shingle construction, lapped 17 in. and nailed. Over these dry felts apply three additional layers of 15-lb. Tarred Felts in shingle construction, lapped 22 in. and solidly cemented with Flintkote Rex Blended Pitch. Coat surface with a heavy pouring of Flintkote Rex Blended Pitch and embed 400 lbs. of gravel or 300 lbs. of slag.

Flashing—A Flintkote standard flashing shall be used.

Bond—Manufacturers' bond on roofing shall be furnished for a period of 20 years.

SPECIFICATION B-3-W (BOND: 15 YEARS)

Type—Slag or Gravel Surface Viskalt Saturated Felts, Asphalt.

Deck—Wood (or precast gypsum).

Incline— $\frac{1}{4}$ -in. up to 3-in. per foot.

Classification—Underwriters' "A."

Insert Under "Roofing"—Built-up Roofing shall be a Flintkote Specification B-3-W applied as follows subject to the Flintkote detailed specification. Apply a Flintkote 30-lb. Viskalt Saturated Base Felt (or two layers of 15-lb. Viskalt Saturated Felt lapped 19 in.) laid dry and nailed. Over this base apply two layers of 15-lb. Viskalt Saturated Felt in shingle construction, lapped 19 in., and solidly cemented with Flintkote Roofing Asphalt. Coat surface with a heavy pouring of Flintkote Roofing Asphalt and embed 400 lbs. of gravel or 300 lbs. of slag.

Flashing—A Flintkote standard flashing shall be used.

Bond—Manufacturers' bond on roofing shall be furnished for a period of 15 years.

SPECIFICATION B-4-W (BOND: 15 YEARS)

Type—Slag or Gravel Surface Tarred Felts, Rex Blended Pitch.

Deck—Wood (or precast gypsum).

Incline— $\frac{1}{4}$ -in. up to 2-in. per foot.

Classification—Underwriters' "A."

Insert Under "Roofing"—Built-up Roofing shall be a Flintkote Specification B-4-W applied as follows subject to the Flintkote detailed specification. Apply one layer of sheathing paper and over this apply two layers of 15-lb. Tarred Felts laid dry in shingle construction, lapped 17 in. and nailed. Over these dry felts apply two additional layers of 15-lb. Tarred Felts in shingle construction, lapped 17 in., and solidly cemented with Flintkote Rex Blended Pitch. Coat surface with a heavy pouring of Flintkote Rex Blended Pitch and embed 400 lbs. of gravel or 300 lbs. of slag.

Flashing—A Flintkote standard flashing shall be used.

Bond—Manufacturers' bond on roofing shall be furnished for a period of 15 years.

SPECIFICATION B-2-W (BOND: 15 YEARS)

Type—Mineral surfaced Rex Construction, Viskalt Saturated Felts, Flintkote Roofing Asphalt.

Deck—Wood (or precast gypsum).

Incline—3 in. up to 9 in. per foot.

Classification—Underwriters' "C."

Insert Under "Roofing"—Built-up Roofing shall be a Flintkote Specification B-2-W applied as follows subject to the Flintkote detailed specification. Apply one layer of 15-lb. Viskalt Saturated Felt laid dry and nailed. Over this felt apply two additional layers of 15-lb. Viskalt Saturated Felt lapped, 19 in. and cemented solidly to the first felt and to each other with Flintkote Roofing Asphalt. Over these felts apply Rex Construction Roofing in two layers, solidly cemented to each other with Flintkote Roofing Asphalt.

Flashing—A Flintkote standard flashing shall be used.

Bond—Manufacturers' bond on roofing shall be furnished for a period of 15 years.

SPECIFICATION C-3-W-S (BOND: 10 YEARS)

Type—Slag or Gravel Surface Viskalt Saturated Felts, Flintkote Roofing Asphalt.

Deck—Wood (or precast gypsum).

Incline—3 in. up to 6 in. per foot.

Classification—Underwriters' "C."

Insert Under "Roofing"—Built-up Roofing shall be a Flintkote Specification C-3-W-S applied as follows subject to the Flintkote detailed specification. Apply five layers of 15-lb. Viskalt Saturated Felts in shingle construction, lapped 29 $\frac{1}{4}$ in., nailed as specified, and cemented solidly between laps for a distance of 25 in. with Flintkote Roofing Asphalt. Coat surface with a heavy pouring of Flintkote Roofing Asphalt and embed 325 lbs. of gravel or 250 lbs. of slag.

Flashing—A Flintkote standard flashing shall be used.

Bond—Manufacturers' bond on roofing shall be furnished for a period of 10 years.

Note: A similar type of specification is available for 20-year bond period.

SPECIFICATION C-1-W-C (BOND: 10 YEARS)

Type—Smooth Surface 34-lb. Flintkote Cap Sheet, Viskalt Saturated Felts, Flintkote Roofing Asphalt.

Deck—Wood (or precast gypsum).

Incline— $\frac{3}{4}$ in. up to 3 in. per foot.

Classification—Underwriters' "C."

Insert Under "Roofing"—Built-up Roofing shall be a Flintkote Specification C-1-W-C applied as follows subject to the Flintkote detailed specification. Apply one layer of Flintkote 35-lb. base sheet laid dry and nailed. Over this felt apply two layers of 15-lb. Viskalt Saturated Felts, lapped 19 in., and solidly cemented with Flintkote Roofing Asphalt. Over these felts apply one layer of Flintkote 34-lb. Cap Sheet, lapped 6 in., and solidly cemented with Flintkote Roofing Asphalt.

Flashing—A Flintkote standard flashing shall be used.

Bond—Manufacturers' bond on roofing shall be furnished for a period of 10 years.

Note: Bond on this specification not issued in or south of the states of South Carolina, Georgia, Tennessee, Arkansas and Oklahoma.

SPECIFICATION C-2-W (BOND: 10 YEARS)

Type—Mineral Surfaced Rex Construction, Viskalt Saturated Felts, Flintkote Roofing Asphalt.

Deck—Wood (or precast gypsum).

Incline—3 in. up to 9 in. per foot.

Classification—Underwriters' "C."

Insert Under "Roofing"—Built-up Roofing shall be a Flintkote Specification C-2-W applied as follows subject to the Flintkote detailed specification. Apply two layers of 15-lb. Viskalt Saturated Felts laid dry, lapped 19 in., and nailed. Over these felts apply Rex Construction Roofing in two layers solidly cemented with Flintkote Roofing Asphalt.

Flashing—A Flintkote standard flashing shall be used.

Bond—Manufacturers' bond on roofing shall be furnished for a period of 10 years.

SPECIFICATION C-1-W (BOND: 10 YEARS)

Type—Smooth Surfaced Viskalt Saturated Felts, Flintkote Viskalt Roofing Compound.

Deck—Wood (or precast gypsum).

Incline— $\frac{3}{4}$ in. up to 3 in. per foot.

Classification—Underwriters' "C."

Insert Under "Roofing"—Built-up Roofing shall be a Flintkote Specification C-1-W applied as follows subject to the Flintkote detailed specification. Apply a Flintkote 30-lb. Viskalt Saturated Base Felt laid dry and nailed. Over this base apply two layers of 15-lb. Viskalt Saturated Felts in shingle construction; lapped 19 in., and solidly cemented with Flintkote Viskalt Roofing Compound. Felts shall be surfaced with a heavy coating of Viskalt Roofing Compound.

Flashing—A Flintkote standard flashing shall be used.

Bond—Manufacturers' bond on roofing shall be furnished for a period of 10 years.

Note: Bond on this specification not issued in or south of the states of South Carolina, Georgia, Tennessee, Arkansas and Oklahoma.

SPECIFICATION C-1-W-E (BOND: 10 YEARS)

Type—Smooth Surfaced, Viskalt Saturated Felts, Flintkote Roofing Asphalt, top surfaced with Static Roof Coating.

Deck—Wood (or precast gypsum).

Incline— $\frac{3}{4}$ in. up to 3 in. per foot.

Classification—Underwriters' "C."

Insert Under "Roofing"—Built-up Roofing shall be a Flintkote Specification C-1-W-E applied as follows subject to the Flintkote detailed specification. Apply a Flintkote 30-lb. Viskalt Saturated Felt laid dry and nailed. Over this base apply two layers of 15-lb. Viskalt Saturated Felt in shingle construction, lapped 19 in., and solidly cemented with Flintkote Roofing Asphalt. Felt shall be surfaced with Static Roof Coating (Fibred) three gallons per 100 sq. ft.

Flashing—A Flintkote standard flashing shall be used.

Bond—Manufacturers' bond on roofing shall be furnished for a period of 10 years.

Note: Bond on this specification not issued in or south of the states of South Carolina, Georgia, Tennessee, Arkansas and Oklahoma.



BUILT-UP ROOFING — NON-COMBUSTIBLE DECKS

SPECIFICATION A-3-C (BOND: 20 YEARS)

Type—Slag or Gravel Surface Viskalt Saturated Felts, Asphalt.
Deck—Non-combustible (poured or precast concrete, poured gypsum or book tile).
Incline—From 1/4 in. up to 3 in. per foot (wood nailing strips on 4-ft. centers required on inclines over 2 in. per foot unless surface of deck allows nailing).
Classification—Underwriters' "A."
Insert Under "Roofing"—Built-up Roofing shall be a Flintkote Specification A-3-C applied as follows subject to the Flintkote detailed specification. (Where deck is of gypsum, prime surface with asphalt primer.) Apply four layers of 15-lb. Flintkote Viskalt Saturated Felts laid in shingle construction, lapped 27/2 in., and solidly cemented with Roofing Asphalt. Coat surface with heavy pouring of Flintkote Roofing Asphalt and embed 400 lbs. of gravel or 300 lbs. of slag.
Flashing—A Flintkote standard flashing shall be used.
Bond—Manufacturers' bond on roofing shall be furnished for a period of 20 years.

SPECIFICATION A-4-C (BOND: 20 YEARS)

Type—Slag or Gravel Surface Tarred Felts, Rex Blended Pitch.
Deck—Non-combustible (poured or precast concrete, poured gypsum or book tile).
Incline—From 1/4 in. up to 1 in. per foot on poured or precast concrete or book tile; from 1/4 in. up to 2 in. per foot on poured gypsum.
Classification—Underwriters' "A."
Insert Under "Roofing"—Built-up Roofing shall be a Flintkote Specification A-4-C applied as follows subject to the Flintkote detailed specification. Apply four layers of Flintkote 15-lb. Tarred Felts in shingle construction, lapped 24/2 in., and solidly cemented with Flintkote Rex Blended Pitch. Coat surface with heavy pouring of Flintkote Rex Blended Pitch and embed 400 lbs. of gravel or 300 lbs. of slag.
Flashing—A Flintkote standard flashing shall be used.
Bond—Manufacturers' bond on roofing shall be furnished for a period of 20 years.

SPECIFICATION B-3-C (BOND: 15 YEARS)

Type—Slag or Gravel Surface Viskalt Saturated Felts, Asphalt.
Deck—Non-combustible (poured or precast concrete, poured gypsum or book tile).
Incline—From 1/4 in. up to 3 in. per foot (wood nailing strips on 4-ft. centers required on inclines over 2 in. per foot unless surface of deck allows nailing).
Classification—Underwriters' "A."
Insert Under "Roofing"—Built-up Roofing shall be a Flintkote Specification B-3-C laid as follows subject to the Flintkote detailed specification. (Where deck is of gypsum prime surface with asphalt primer.) Apply three layers of 15-lb. Flintkote Viskalt Saturated Felts in shingle construction, lapped 24 3/4 in., and solidly cemented with Flintkote Roofing Asphalt. Coat surface with heavy pouring of Flintkote Roofing Asphalt and embed 400 lbs. of gravel or 300 lbs. of slag.
Flashing—A Flintkote standard flashing shall be used.
Bond—Manufacturers' bond on roofing shall be furnished for a period of 15 years.

SPECIFICATION B-4-C (BOND: 15 YEARS)

Type—Slag or Gravel Surface Tarred Felts, Rex Blended Pitch.
Deck—Non-combustible (poured or precast concrete, poured gypsum or book tile).
Incline—From 1/4 in. up to 1 in. per foot on poured or precast concrete or book tile; from 1/4 in. up to 2 in. per foot on poured gypsum.
Classification—Underwriters' "A."
Insert Under "Roofing"—Built-up Roofing shall be a Flintkote Specification B-4-C laid as follows subject to the Flintkote detailed specification. Apply three layers of Flintkote 15-lb. Tarred Felts in shingle construction, lapped 22 in., and solidly cemented with Flintkote Rex Blended Pitch. Coat surface with heavy pouring of Flintkote Rex Blended Pitch and embed 400 lbs. of gravel or 300 lbs. of slag.
Flashing—A Flintkote standard flashing shall be used.
Bond—Manufacturers' bond on roofing shall be furnished for a period of 15 years.

SPECIFICATION B-2-C (BOND: 15 YEARS)

Type—Mineral Surface Rex Construction, Viskalt Saturated Felts, Flintkote Roofing Asphalt.
Deck—Non-combustible (poured concrete or poured gypsum).
Incline—3 in. up to 9 in. per foot.
Classification—Underwriters' "C."
Insert Under "Roofing"—Built-up Roofing shall be a Flintkote Specification B-2-C laid as follows subject to the Flintkote detailed specification. Prime the deck with Flintkote Asphalt Primer. Apply two layers of 15-lb. Viskalt Saturated Felt lapped 19 in. and solidly cemented in Flintkote Roofing Asphalt. Over these felts apply Rex Construction Roofing in two layers, solidly cemented to each other with Flintkote Roofing Asphalt.
Flashing—A Flintkote standard flashing shall be used.
Bond—Manufacturers' bond on roofing shall be furnished for a period of 15 years.

SPECIFICATION C-3-C-S (BOND: 10 YEARS)

Type—Slag or Gravel Surface Viskalt Saturated Felts, Flintkote Roofing Asphalt.
Deck—Non-combustible.
Incline—3 in. up to 6 in. per foot.
Classification—Underwriters' "C."
Insert Under "Roofing"—Built-up Roofing shall be a Flintkote Specification C-3-C-S laid as follows subject to the Flintkote detailed specification. Prime the deck with Flintkote Asphalt Primer and apply four layers of 15-lb. Viskalt Saturated Felt, lapped 27/2 in., solidly cemented with Flintkote Roofing Asphalt. Coat surface with a heavy pouring of Flintkote Roofing Asphalt and embed with 325 lbs. of gravel or 250 lbs. of slag.
Flashing—A Flintkote standard flashing shall be used.
Bond—Manufacturers' bond on roofing shall be furnished for a period of 10 years.
Note: A similar type of specification is available for 20-year bond period.

SPECIFICATION C-1-C-C (BOND: 10 YEARS)

Type—Smooth Surface Cap Sheet, Viskalt Saturated Felts, Flintkote Roofing Asphalt.
Deck—Non-combustible.
Incline—3/4 in. up to 3 in. per foot.
Classification—Underwriters' "C."
Insert Under "Roofing"—Built-up Roofing shall be a Flintkote Specification C-1-C-C laid as follows subject to the Flintkote detailed specification. Prime the deck with Flintkote Asphalt Primer. Apply three layers of 15-lb. Viskalt Saturated Felts lapped 24 3/4 in. and solidly cemented with Flintkote Roofing Asphalt. Over these felts apply one layer of Flintkote 34-lb. Cap Sheet lapped 6 in. and cemented solidly with Flintkote Roofing Asphalt.
Flashing—A Flintkote standard flashing shall be used.
Bond—Manufacturers' bond on roofing shall be furnished for a period of 10 years.
Note: Bond on this specification not issued in or south of the states of South Carolina, Georgia, Tennessee, Arkansas and Oklahoma.

SPECIFICATION C-2-C (BOND: 10 YEARS)

Type—Mineral Surface Rex Construction, Viskalt Saturated Felts, Flintkote Roofing Asphalt.
Deck—Non-combustible (poured concrete or poured gypsum).
Incline—3 in. up to 9 in. per foot.
Classification—Underwriters' "C."
Insert Under "Roofing"—Built-up Roofing shall be a Flintkote Specification C-2-C laid as follows subject to the Flintkote detailed specification. Prime the deck with Flintkote Asphalt Primer. Apply one layer of 15-lb. Viskalt Saturated Felt solidly cemented with Flintkote Roofing Asphalt. Over this felt apply Rex Construction roofing in two layers solidly cemented with Flintkote Roofing Asphalt.
Flashing—A Flintkote standard flashing shall be used.
Bond—Manufacturers' bond on roofing shall be furnished for a period of 10 years.

SPECIFICATION C-1-C (BOND: 10 YEARS)

Type—Smooth Surface Viskalt Saturated Felt and Flintkote Roofing Asphalt.
Deck—Non-combustible (poured or precast concrete, poured gypsum or book tile).
Incline—From 3/4 in. up to 3 in. per foot.
Classification—Underwriters' "C."
Insert Under "Roofing"—Built-up Roofing shall be a Flintkote Specification C-1-C applied as follows subject to the Flintkote detailed specification. Prime the deck with Flintkote Asphalt Primer. Apply three layers of 15-lb. Viskalt Saturated Felts in shingle construction, lapped 24 3/4 in., and solidly cemented with Flintkote Viskalt Roofing Compound. Felts shall be surfaced with Viskalt Roofing Compound.
Flashing—A Flintkote standard flashing shall be used.
Bond—Manufacturers' bond on roofing shall be furnished for a period of 10 years.
Note: Bond on this specification not issued in or south of the states of South Carolina, Georgia, Tennessee, Arkansas and Oklahoma.

SPECIFICATION C-1-C-E (BOND: 10 YEARS)

Type—Smooth Surface Viskalt Saturated Felt and Flintkote Roofing Asphalt, top surfaced with Static Roof Coating.
Deck—Non-combustible (poured or precast concrete, poured gypsum or book tile).
Incline—3/4 in. up to 3 in. per foot.
Classification—Underwriters' "C."
Insert Under "Roofing"—Built-up Roofing shall be a Flintkote Specification C-1-C-E applied as follows subject to the Flintkote detailed specification. Prime the deck with Flintkote Asphalt Primer. Apply one layer of 30-lb. Viskalt Saturated Felt cemented solidly with Flintkote Roofing Asphalt. Over this base apply two layers of 15-lb. Viskalt Saturated Felt in shingle construction, lapped 19 in. and solidly cemented with Flintkote Roofing Asphalt. Felt shall be surfaced with Static Roof Coating (Fibreated) three gallons per 100 sq. ft.
Flashing—A Flintkote standard flashing shall be used.
Bond—Manufacturers' bond on roofing shall be furnished for a period of 10 years.
Note: Bond on this specification not issued in or south of the states of South Carolina, Georgia, Tennessee, Arkansas and Oklahoma.

BUILT-UP ROOFING UNDER PROMENADE TILE

SPECIFICATION C-1-P (BOND: 10 YEARS)

Type—Viskalt Saturated Felts and Flintkote Roofing Asphalt.

Deck—Concrete.

Incline—Not over 1 in. per foot.

Insert Under "Roofing"—Built-up Roofing under Promenade Tile shall be a Flintkote Specification C-1-P applied as follows subject to the Flintkote detailed specification. Apply five layers of Flintkote 15-lb. Viskalt Saturated Felts in two, two, and one ply construction, solidly cemented with Flintkote Roofing Asphalt and surfaced with a heavy coating of Flintkote Roofing Asphalt.

Flashing—Copper Cap and Base Flashing shall be used, reinforced with three plies of 15-lb. Viskalt Saturated Felts cemented solidly with Flintkote Roofing Asphalt.

Bond—Manufacturers' bond on roofing shall be furnished for a period of 10 years.

SPECIFICATION C-4-P (BOND: 10 YEARS)

Type—Tarred Felts and Rex Blended Pitch.

Deck—Concrete.

Incline—Not over 1 in. per foot.

Insert Under "Roofing"—Built-up Roofing under Promenade Tile shall be a Flintkote Specification C-4-P applied as follows subject to the Flintkote detailed specification. Apply five layers of Flintkote 15-lb. Tarred Felt in two, two and one ply construction, solidly cemented with Flintkote Rex Blended Pitch and surfaced with a heavy coating of Rex Blended Pitch.

Flashing—Copper Cap and Base Flashing shall be used, reinforced with three plies of 15-lb. Viskalt Saturated Felts solidly cemented with Flintkote Roofing Asphalt.

Bond—Manufacturers' bond on roofing shall be furnished for a period of 10 years.

RECOMMENDATIONS WHERE INSULATION IS USED

Insulation Used Under Pitch and Gravel Roofs—Over Wood Decks—Normal Conditions—Apply two layers of 6-lb. rosin sheathing paper over wood deck. Nail insulation into wood deck. Over insulation apply respective specification as over non-combustible decks.

Humid Conditions in the Building Itself—Before application of insulation apply one layer of sheathing paper and two layers of 15-lb. tarred felts laid dry and nailed. Apply insulation mopped solid in pitch and over insulation apply respective specification as over non-combustible decks, mopping all felts solidly to insulation. Where more than one layer of insulation is used each successive layer shall be mopped solidly with pitch to the preceding layer. Where incline is over 3 in. per foot insulation should also be nailed into deck.

Insulation Used Under Asphalt Types of Roofs—Over Wood Decks—Normal Conditions—Apply two layers of 6-lb. sheathing paper laid dry. Nail insulation into deck and over insulation apply respective specifications as over non-combustible deck, mopping all felts solidly to insulation.

Humid Conditions in the Building Itself—Before application of insulation apply two layers of 15-lb. felt laid dry, lapped 19 in. Apply insulation mopped solid in asphalt and over insulation apply respective specification as over non-combustible decks, mopping all felts solidly to insulation. Where more than one layer of insulation is used each successive layer shall be mopped solidly with asphalt to the preceding layer. Where incline is over 3 in. per foot insulation should also be nailed into deck.

Insulation Used Under Asphalt or Pitch and Gravel Roofs—Over Non-combustible Decks—Normal Conditions—Insulation shall be solidly cemented to deck which has previously been primed and on inclines over 3 in. per foot nailing should be provided. Where more than one layer of insulation is used, each successive layer shall be cemented solidly with asphalt to the preceding layer if an asphalt specification is used (or with pitch if a pitch and gravel specification is used). Over insulation apply respective specification as over non-combustible decks, mopping all felts solidly to insulation.

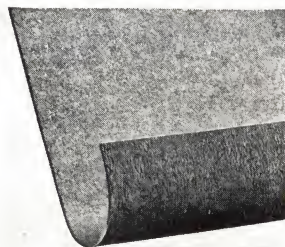
Humid Conditions in the Building Itself—Over the primed deck apply a heavy mopping of roofing asphalt (or pitch) and embed two layers of 15-lb. felt solidly cemented with asphalt if an asphalt specification is used (or with pitch if a pitch and gravel specification is used). On inclines of 3 in. per foot, nailing should be provided. Where more than one layer is used, each successive layer should be cemented solidly with asphalt or pitch to the preceding layer. Over insulation apply respective specification as over non-combustible decks, mopping all felts solidly to insulation.

REQUIREMENTS WHERE STEEL DECKS ARE USED

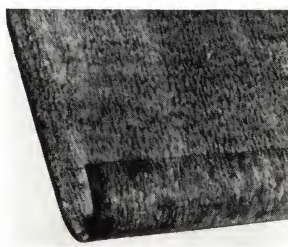
All steel decks shall be primed with asphalt primer if not provided with a shop coat and shall be covered with at least one ply of rigid insulation mopped solid with roofing asphalt. Over insulation apply the respective specification as over non-combustible decks. Where incline is over 3 in. per foot, means of fastening insulation to steel decks should be provided.

FLINTKOTE ROLL ROOFINGS

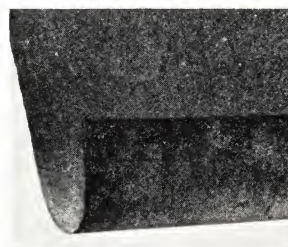
Flintkote Roll Roofings are available either with mineral surfacing or smooth surface. Both types of roofing are made on heavy felts that have been saturated with a special asphalt, coated on both sides with coating asphalt and surfaced either with colored granules or with talc or mica. A special corrugated surface on smooth-surface roofings is also available. Roll roofings of this type are primarily intended for use on farm buildings, sheds, industrial plants and other types of buildings where a low cost roofing is required.

"REX
FLINTKOTE"

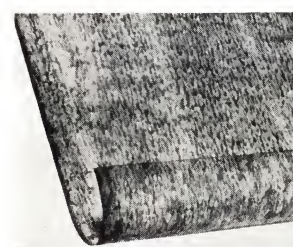
"Rex Flintkote" is a smooth Roll Roofing of the highest quality material surfaced with "Rayflex" finish on one side and corrugated mica finish on the other. Nails and cement furnished (see table).

FLINTKOTE
"STALWART"

Flintkote "Stalwart" is a smooth Roll Roofing that meets government and railroad specifications. Gunmetal corrugated finish on both sides (see table).

FLINTKOTE
"RELiance"

Flintkote "Reliance" is a smooth Roll Roofing surfaced with mica on both sides (see table).

FLINTKOTE
"GUARDIAN"

Flintkote "Guardian" is a moderately priced smooth Roll Roofing, corrugated with talc finish both sides. Most suitable where permanency is not paramount (see table).

DATA ON FLINTKOTE MINERAL SURFACED ROOFING*

Av. wt. roll, lb.	Approx. sq. ft. per roll	Approx. width roll, in.	Underwriters label, class	Colors
75	108	36		Green, Red, Blue-black and Clover Green
90	108	36	C	Green, Red, Clover Green and Tile Red, Blue-Black.

DATA ON FLINTKOTE SMOOTH SURFACE ROLL ROOFING*

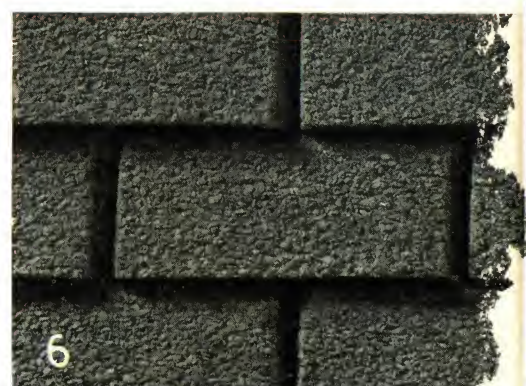
Rex Flintkote				Stalwart				Reliance				Guardian			
Av. wt. per roll, lb.	Approx. sq. ft. per roll	Approx. width of roll, in.	Underwriters' label, class	Av. wt. per roll, lb.	Approx. sq. ft. per roll	Approx. width of roll, in.	Underwriters' label, class	Av. wt. per roll, lb.	Approx. sq. ft. per roll	Approx. width of roll, in.	Underwriters' label, class	Av. wt. per roll, lb.	Approx. sq. ft. per roll	Approx. width of roll, in.	Underwriters' label, class
55	108	36	C	45	108	36	C	45	108	36	C	35	108	36	..
65	108	36	C	55	108	36	C	55	108	36	C	45	108	36	..
75	108	36	C	65	108	36	C	65	108	36	C	55	108	36	..
				75	108	36	C	75	108	36	C				..

*Subject to change without notice.



COLOR CHART OF FLINTKOTE ASPHALT SHINGLES

To simplify the presentation of the numerous colors and blends in which Flintkote Asphalt Shingles are available, four basic plain colors and four basic blends are reproduced herewith. Each panel is numbered in its lower left corner. These numbers are keyed to the tabulated information presented on page three of this catalog. Please refer to page three for detailed color specifications of Flintkote Asphalt Shingles.



Note: These colors are as faithful as can be obtained by modern printing. Some variations are to be expected because of reproduction limitations and slight differences in the manufacturing processes of the various products.

